



Subject card

Subject name and code	ICT IN MANAGEMENT, PG_00071708						
Field of study	Management						
Date of commencement of studies	October 2026	Academic year of realisation of subject				2026/2027	
Education level	first-cycle studies	Subject group				Obligatory subject group in the field of study Subject group related to scientific research in the field of study	
Mode of study	Full-time studies	Mode of delivery				at the university	
Year of study	1	Language of instruction				English	
Semester of study	2	ECTS credits				2.0	
Learning profile	general academic profile	Assessment form				assessment	
Conducting unit	Department of Informatics In Management -> Faculty of Management and Economics -> Faculties of Gdańsk University of Technology						
Name and surname of lecturer (lecturers)	Subject supervisor	mgr Jaromir Durkiewicz					
	Teachers						
Lesson types	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	0.0	0.0	30.0	0.0	0.0	30
	E-learning hours included: 0.0						
	eNauczanie source address: https://enauczanie.pg.edu.pl/moodle/course/view.php?id=47790						
Learning activity and number of study hours	Learning activity	Participation in didactic classes included in study plan		Participation in consultation hours		Self-study	SUM
	Number of study hours	30		3.0		17.0	50
Subject objectives	The aim of the course is to prepare students to solve managerial and economic problems using information and communication technologies, based on knowledge of data processing and analysis methods, and the identification of reliable sources of information, in the context of organisational decision-making.						
Learning outcomes	Course outcome		Subject outcome			Method of verification	
	[K6_U07] uses advanced information technologies to enhance data analysis and management processes.		Can apply ICT methods and tools to obtain, process, analyze, and present data on the organisation's resources; can solve managerial and economic problems occurring in the organisation.			[SU3] Assessment of ability to use knowledge gained from the subject	
	[K6_K03] is prepared to critically assess the knowledge they possess, which is necessary for solving cognitive and practical problems, and to supplement any gaps with opinions from external experts.		The student knows and understands the principles of identifying and assessing the reliability of information sources and data used in the analysis of managerial and economic problems with the application of information and communication technologies.			[SK3] Assessment of ability to organize work	
Subject contents	Course content – laboratory <ul style="list-style-type: none"> Working with managerial data (Excel) Optimization problems (Excel) Informed decision making (Excel) Management Information Systems & Business Process Modelling Introduction to Algorithmic Thinking Modern trends in ICT and their managerial impact 						
Prerequisites and co-requisites							

Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	Practical test on understanding and applying ICT methods and tools presented within the course.	60.0%	50.0%
	Oral answer: presentation and defence of an elaborated ICT solution to a managerial or economic problem.	60.0%	50.0%
Recommended reading	Basic literature	Harvey, Excel 2019 All-in-one for Dummies, Wiley, 2018 Alexander, Kusleika, Wilkenbach, Excel 2019 Bible, Wiley, 2018	
	Supplementary literature	<ul style="list-style-type: none"> • Oz. E., Management Information Systems, Thomson Course Technology, 2009 • Romano F., Kruger H., Learn Python Programming: An in-depth introduction to the fundamentals of Python , Third Edition, Packt 2021 	
	eResources addresses	Basic https://www.w3schools.com/excel/index.php - Excel tutorial https://www.w3schools.com/python/default.asp - Python tutorial	
Example issues/ example questions/ tasks being completed	<ul style="list-style-type: none"> • Please determine the optimal value of x for maximizing y given the constraints Z. • Based on the dataset, determine which manager generates highest profit for the company. 		
Practical activities within the subject	Not applicable		

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